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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Shlomo Ben-Haim, et al.

Examiner: J. Jastrzab

Serial No.: 09/254,900

Group Art Unit: 3762

Filed: March 12, 1999

For: **CARDIAC OUTPUT ENHANCED PACEMAKER**

September 25, 2001

Box AF
Assistant Commissioner for Patents
Washington, D.C. 20231

AMENDMENT UNDER 37 C.F.R. § 1.116

S I R:

Please amend the above application as follows:

IN THE CLAIMS:

Cancel Claims 1 to 53 without prejudice and add the following claims:

54. (NEW) Apparatus for heart pacing with cardiac output modification, comprising;

one or more electrodes adapted to apply electrical signals to cardiac muscle segments;

signal generation circuitry adapted to apply an excitatory electrical pulse to at least one of the electrodes to pace the heart and a non-excitatory stimulation pulse of a magnitude and at a timing at which it is unable to generate a propagating action potential to at least one of the one or more electrodes to modify the cardiac output; and

an electrode which senses cardiac electrical activity and is coupled to the signal generation circuitry,

wherein the circuitry detects a QT interval in the cardiac electrical activity.

Enter AF.
JF
11/16/01

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